AUTODOC CLUB

How to change rear coil springs on **Audi A3 8PA** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
AUDI A3 Hatchback (8P1) 2.0 FSI, AUDI A3 Hatchback (8P1) 1.6, AUDI A3 Hatchback (8P1) 2.0 TDI 16V, AUDI A3 Hatchback (8P1) 1.9 TDI, AUDI A3 Hatchback (8P1) 2.0 TDI, AUDI A3 Hatchback (8P1) 1.6 FSI, AUDI A3 Sportback (8PA) 1.6, AUDI A3 Sportback (8PA) 1.9 TDI, AUDI A3 Sportback (8PA) 1.6 FSI, AUDI A3 Sportback (8PA) 2.0 FSI, AUDI A3 Sportback (8PA) 2.0 TDI 16V, AUDI A3 Sportback (8PA) 2.0 TFSI, AUDI A3 Sportback (8PA) 2.0 TFSI quattro, AUDI A3 Hatchback (8P1) 2.0 TDI quattro, AUDI A3 Sportback (8PA) 2.0 TDI, (+ 14)

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – AUDI A3 8PA. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: coil springs – Audi A3 8PA. Tip from AUTODOC:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Please note: all work on the car – Audi A3 8PA – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the rear of the car and secure on supports.



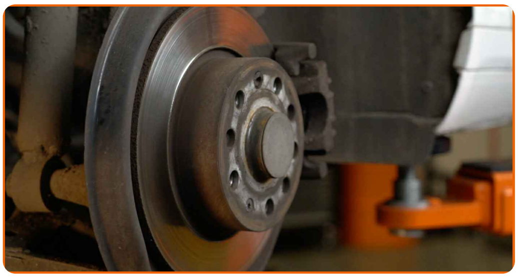
4 Unscrew the wheel bolts.



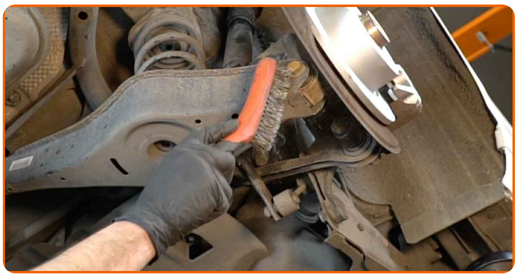
Replacement: coil springs – Audi A3 8PA. AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

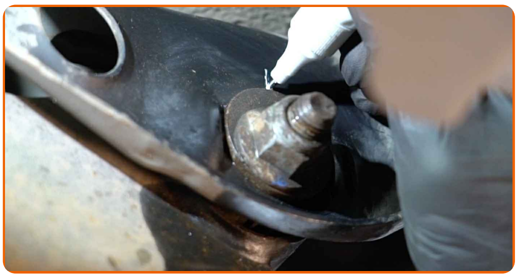
5 Remove the wheel.



6 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



7 Make a mark on the camber adjustment bolt.



8 Unscrew the arm fastening to the beam. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



9 Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



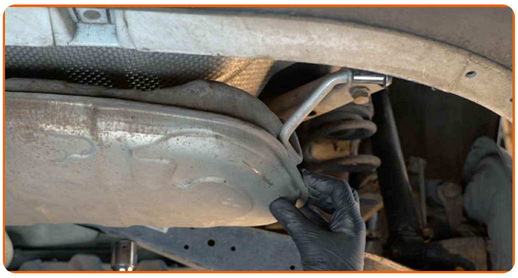
10 Support the arm. Use a hydraulic transmission jack.



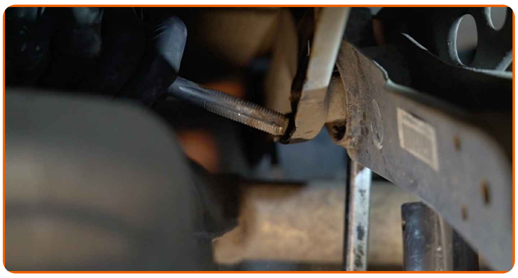
11 Unscrew the arm fastening to the beam. Use a combination spanner #18.



12 Remove the exhaust system fastener. Use a crowbar.



13 Remove the fastening bolt.



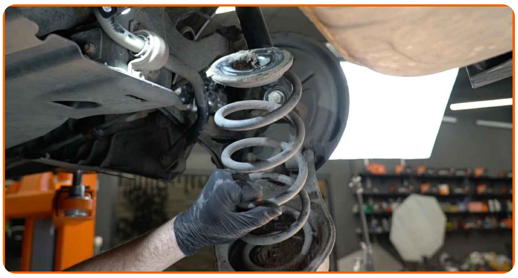
14 Remove the support from under the arm.



AUTODOC recommends:

- Replacement: coil springs – Audi A3 8PA. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

15 Pull down the suspension control arm. Take out the spring.



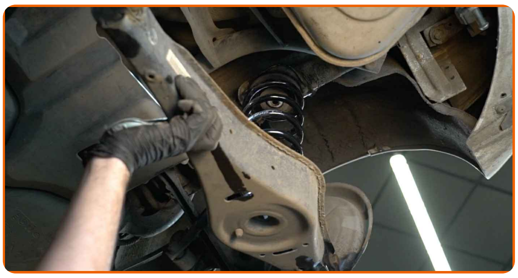
16

Clean the coil spring mounting seats. Use a wire brush. Use WD-40 spray.



17

Install the coil spring together with the rubber mounts into the mounting seats.



18

Support the arm. Use a hydraulic transmission jack.



19

Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.



20

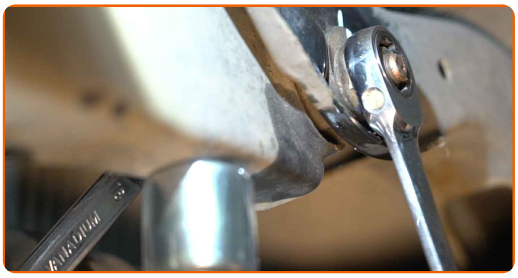
Install the fastening bolt.



Replacement: coil springs – Audi A3 8PA. Tip from AUTODOC experts:

- Adjust the position of the alignment bolt according to the mark.

21 Screw in the fastener connecting the control arm to the rear subframe. Use a combination spanner #18.



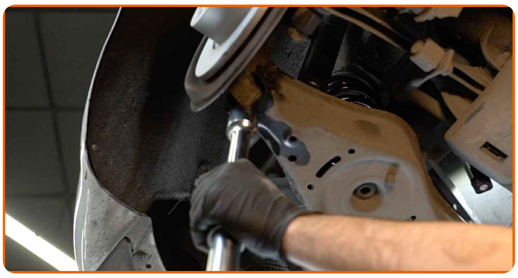
22 Remove the support from under the arm.



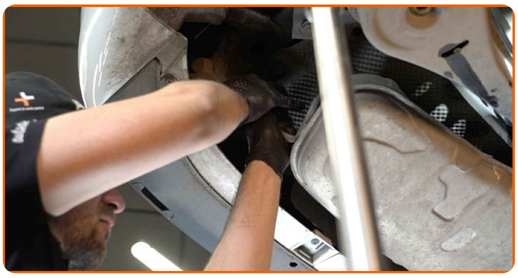
AUTODOC recommends:

- Audi A3 8PA – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

23 Support the arm. Use a hydraulic transmission jack.



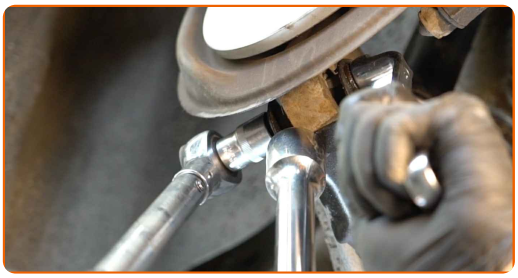
24 Install the exhaust system fastener.



25 Tighten the fastener connecting the control arm to the rear subframe. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 95 Nm torque.



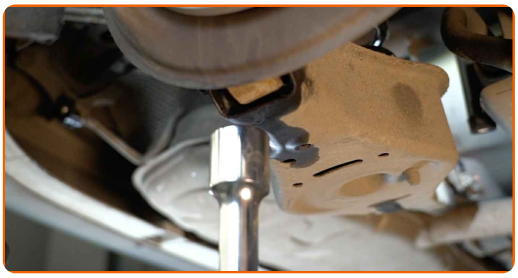
26 Tighten the fastener connecting the suspension arm to the rear knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

27 Remove the support from under the arm.



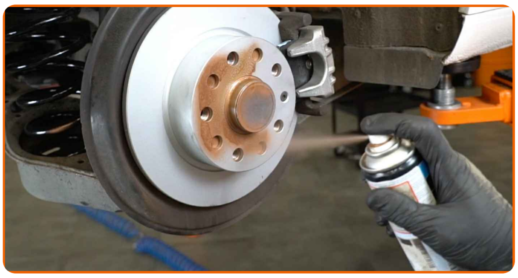
Replacement: coil springs – Audi A3 8PA. AUTODOC experts recommend:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

28 Treat all joints of the arm. Use copper grease.



29 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



30 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – Audi A3 8PA. After applying the spray, wait a few minutes.

31 Install the wheel.



Replacement: coil springs – Audi A3 8PA. Professionals recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

32 Screw in the wheel bolts. Use wheel impact socket #17.



33 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



34 Remove the jacks and chocks.

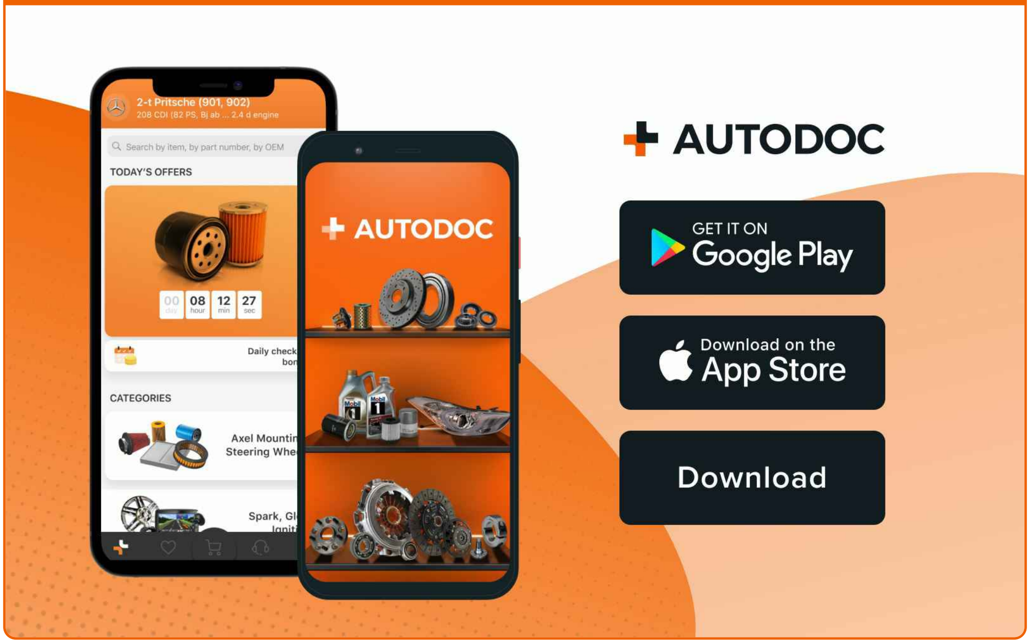


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